

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/017158 A1

(51) International Patent Classification⁷: C12N 15/29,
5/14, A01H 5/00

(21) International Application Number:

PCT/SG2003/000191

(22) International Filing Date: 13 August 2003 (13.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US):
TEMASEK LIFE SCIENCES LABORATORY [SG/SG]; 1 Research Link, The National University of Singapore, Singapore 117604 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): YIN, Zhong, Chao [CN/SG]; Block 605, Clementi West Street, #09-51, Singapore 120605 (SG). WANG, Guo-Liang [CN/US]; Block 1390 Oakbourne Drive, Columbus, OH 43235 (US). TIAN, Dong, Sheng [CN/SG]; Block 513, West Coast Road, #12-487, Singapore 120513 (SG). GU, Ke, Yu [CN/SG]; Block 712, Clementi West Street 2, #12-171, Singapore 120712 (SG).

(74) Agent: ELLA CHEONG MIRANDAH & SPRUSONS PTE LTD; Robinson Road Post Office, P.O. Box 1531, Singapore 903031 (SG).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/017158 A1

(54) Title: NUCLEIC ACIDS FROM RICE CONFERRING RESISTANCE TO BACTERIAL BLIGHT DISEASE CAUSED BY XANTHOMONAS spp.

(57) Abstract: The present invention provides plants, plant cells and methods of making transgenic plants or plant cells, wherein the plants or cells are resistant to bacterial blight. The invention provides isolated nucleic acid sequences comprising SEQ ID NO: 1 or fragments thereof which provide a plant with resistance to bacterial blight disease when transfected into the plant.